

FORM PTO-1449

ATTY. DOCKET NO.
2060.0060008/PAJ/M-MAPPLICATION NO.
09/350,401THIRD SUPPLEMENTAL INFORMATION
STATEMENTAPPLICANT(S)
SETTE *et al.*FILING DATE
July 8, 1999ART UNIT
1644

-U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
MJ	AA100	4,235,877	11/25/1980	Fullerton	—	—	06/27/1979
	AB100	4,487,715	12/11/1984	Nitecki <i>et al.</i>	—	—	07/09/1982
	AC100	4,599,230	07/08/1986	Milich <i>et al.</i>	—	—	03/09/1984
	AD100	4,837,028	06/06/1989	Allen	—	—	12/24/1986
	AE100	5,013,548	05/07/1991	Haynes <i>et al.</i>	—	—	01/21/1988
	AF100	5,128,319	07/07/1992	Arlinghaus	—	—	09/20/1989
	AG100	5,736,142	04/07/1998	Sette <i>et al.</i>	—	—	09/14/1994
	AH100	5,783,567	07/21/1998	Hedley <i>et al.</i>	—	—	01/22/1997
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MJ	AL100	EP 0 378 881	06/09/1993	Europe	—	—	Yes No
	AM100	EP 0 429 816	06/05/1991	Europe	—	—	Yes No
	AN100	EP 0 433 242	06/19/1991	Europe	—	—	Yes No
	AO100	WO 93/03764	03/04/1993	WIPO	—	—	Yes No
	AP100	WO 94/20127	09/15/1994	WIPO	—	—	Yes No

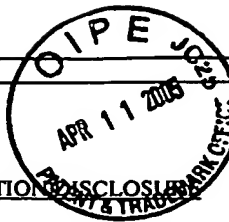
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MJ	AR	100	Alexander, J., <i>et al.</i> , "Development of High Potency Universal DR-Restricted Helper Epitopes by Modification of High Affinity DR-Blocking Peptides," <i>Immunity</i> 1:751-761, Cell Press (1994).
	AS	100	Arndt, S.O., <i>et al.</i> , "Selection of the MHC Class II-Associated Peptide Repertoire by HLA-DM," <i>Immunol. Res.</i> 16:261-272, Humana Press (December 1997)
	AT	100	Barouch, D., <i>et al.</i> , "HLA-A2 Subtypes Are Functionally Distinct in Peptide Binding and Presentation," <i>J. Exp. Med.</i> 182:1847-1856, Rockefeller University Press (1995)

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ms	AL101	WO 95/07707 ✓	03/23/1995	WIPO	—	—	Yes No
↓	AM101	WO 96/22067 ✓	07/25/1996	WIPO	—	—	Yes No
	AN101	WO 97/41440 ✓	11/06/1997	WIPO	—	—	Yes No
	AO101	WO 97/34617 ✓	09/25/1997	WIPO	—	—	Yes No
↓	AP101	WO 01/00225 ✓	01/04/2001	WIPO	—	—	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

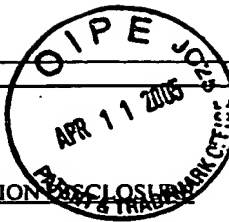
ms	AR	101	Bender, A., <i>et al.</i> , "Improved methods for the generation of dendritic cells from nonproliferating progenitors in human blood," <i>J. Immunol. Methods</i> 196:121-135, Elsevier Science (1996)
↓	AS	101	Ben-Yedidia, T., and Arnon, R., "Design of peptide and polypeptide vaccines," <i>Curr. Opin. Biotechnol.</i> 8:442-448, Current Biology, Ltd. (1997)
↓	AT	101	Carbone, F.R., and Bevan, M.J., "Induction of Ovalbumin-Specific Cytotoxic T Cells by In Vivo Peptide Immunization," <i>J. Exp. Med.</i> 169:603-612, Rockefeller University Press (1989)

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<i>hm</i>	AL102	WO 98/32456	07/30/98	WIPO	—	—	Yes No
<i>v</i>	AM102	WO 99/58658	11/18/99	WIPO	—	—	Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>JK</i>	AR	<u>102</u>	Carbone, F.R., <i>et al.</i> , "Induction of Cytotoxic T Lymphocytes by Primary In Vitro Stimulation with Peptides," <i>J. Exp. Med.</i> 167:1767-1779, Rockefeller University Press (1988)
<i> </i>	AS	<u>102</u>	Cassell, D., and Forman, J., "Linked Recognition of Helper and Cytotoxic Antigenic Determinants for the Generation of Cytotoxic T Lymphocytes," <i>Ann. N.Y. Acad. Sci.</i> 532:51-60, New York Academy Of Sciences (1991)
<i>d</i>	AT	<u>102</u>	Deres, K., <i>et al.</i> , "In vivo priming of virus-specific cytotoxic T lymphocytes with synthetic lipopeptide vaccine," <i>Nature</i> 342:561-564, Nature Publishing Group (1989)

EXAMINER *[Signature]* DATE CONSIDERED *7/11/2001*

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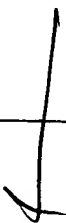

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	AR	<u>103</u>	del Guercio, M-F., <i>et al.</i> , "Potent immunogenic short linear peptide constructs composed of B cell epitopes and Pan DR T Helper Epitopes (PADRE) for antibody responses <i>in vivo</i> ," <i>Vaccine</i> 15:441-448, Elsevier Science (March 1997)
	AS	<u>103</u>	DiBrino, M., <i>et al.</i> , "Endogenous Peptides with Distinct Amino Acid Anchor Residue Motifs Bind to HLA-A1 and HLA-B8," <i>J. Immunol.</i> 152:620-631, American Association of Immunologists (1994)
	AT	<u>103</u>	DiBrino, M., <i>et al.</i> , "The HLA-B14 Peptide Binding Site Can Accommodate Peptides with Different Combinations of Anchor Residues," <i>J. Biol. Chem.</i> 269:32426-32434, American Society for Biochemistry and Molecular Biology (1994)

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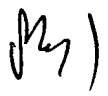


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	AR	<u>104</u>	Donnelly, J.J., <i>et al.</i> , "DNA Vaccines," <i>Annu. Rev. Immunol.</i> 15:617-648, Annual Reviews Inc. (April 1997)
	AS	<u>104</u>	Francis, M.J., <i>et al.</i> , "Non-responsiveness to a foot-and-mouth disease virus peptide overcome by addition of foreign helper T-cell determinants," <i>Nature</i> 330:168-170, Nature Publication Group (1987)
	AT	<u>104</u>	Fynan, E.F., <i>et al.</i> , "DNA vaccines: Protective immunizations by parental, mucosal, and gene-gun inoculations," <i>Proc. Natl. Acad. Sci. USA</i> 90:11478-11482, National Academy of Sciences (1993)

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	AR	<u>105</u>	Gileadi, U., <i>et al.</i> , "Effect of epitope flanking residues on the presentation of N-terminal cytotoxic T lymphocyte epitopes," <i>Eur. J. Immunol.</i> 29:2213-2222, WILEY-VCH Verlag GmbH (July 1999)
	AS	<u>105</u>	Golvano, J., <i>et al.</i> , "Polarity of immunogens: implications for vaccine design," <i>Eur. J. Immunol.</i> 20:2363-2366, VCH Verlagsgesellschaft mbH (1990)
	AT	<u>105</u>	Gulukota, K., <i>et al.</i> , "Two Complementary Methods for Predicting Peptides Binding Major Histocompatibility Complex Molecules," <i>J. Mol. Biol.</i> 267:1258-1267, Academic Press Limited (April 1997)

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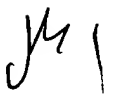


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	AR	<u>106</u>	Hahn, Y.S., <i>et al.</i> , "CD8 ⁺ T Cell Recognition of an Endogenously Processed Epitope is Regulated Primarily by Residues within the Epitope," <i>J. Exp. Med.</i> 176:1335-1341, Rockefeller University Press (1992)
	AS	<u>106</u>	Hahn, Y.S., <i>et al.</i> , "Presentation of Viral Antigen to Class I Major Histocompatibility Complex-Restricted Cytotoxic T Lymphocyte. Recognition of an Immunodominant Influenza Hemagglutinin Site by Cytotoxic T Lymphocyte is Independent of the Position of the Site in the Hemagglutinin Translation Product," <i>J. Exp. Med.</i> 174:733-736, Rockefeller University Press (1991)
	AT	<u>106</u>	Hammer, J., <i>et al.</i> , "Precise Prediction of Major Histocompatibility Complex Class II-Peptide Interaction Based on Peptide Side Chain Scanning," <i>J. Exp. Med.</i> 180:2353-2358, Rockefeller University Press (1994)

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	AR	107	Hill, C.M., <i>et al.</i> , "Exploration of Requirements for Peptide Binding to HLA DRB1*0101 and DRB1*0401," <i>J. Immunol.</i> 152:2890-2898, American Association of Immunologists (1994)
	AS	107	Huczko, E.L., <i>et al.</i> , "Characteristics of Endogenous Peptides Eluted from the Class I MHC Molecule HLA-B7 Determined by Mass Spectrometry and Computer Modeling," <i>J. Immunol.</i> 151:2572-2587, American Association of Immunologists (1993)
	AT	107	Ishioka, G.Y., <i>et al.</i> , "Class I MHC-restricted, peptide specific cytotoxic T lymphocytes generated by peptide priming in vivo," in <i>Vaccines90: Modern Approaches to New Vaccines Including Prevention of AIDS</i> , Brown, F., <i>et al.</i> , eds., Cold Spring harbor Laboratory Press, Cold Spring Harbor, NY, pp. 7-11 (1990)

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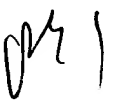


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	AR	<u>108</u>	Ishioka, G.Y., <i>et al.</i> , "Induction of Class I MHC-Restricted, Peptide-Specific Cytolytic T Lymphocytes by Peptide Priming In Vivo," <i>J. Immunol.</i> 143:1094-1100, American Association of Immunologists (1989)
	AS	<u>108</u>	Jardetzky, T.S., <i>et al.</i> , "Peptide binding to HLA-DR1: a peptide with most residues substituted to alanine retains MHC binding," <i>EMBO J.</i> 9:1797-1803, Oxford University Press (1990)
	AT	<u>108</u>	Kast, W.M., <i>et al.</i> , "Protection against lethal Sendai virus infection by <i>in vivo</i> priming of virus-specific cytotoxic T lymphocytes with a free synthetic peptide," <i>Proc. Natl. Acad. Sci. USA</i> 88:2283-2287, National Academy of Sciences (1991)

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	AR	109	Kondo, A., <i>et al.</i> , "Two distinct <i>HLA-A*0101</i> -specific submotifs illustrate alternative peptide binding modes," <i>Immunogenetics</i> 45:249-258, Springer-Verlag (January 1997)
	AS	109	Kubitscheck, U., <i>et al.</i> , "Peptide Binding to Class I Molecules of the Major Histocompatibility Complex on the Surface of Living Target Cells," <i>Scand. J. Immunol.</i> 36:341-348, Blackwell Scientific Publications (1992)
	AT	109	Kubo, R.T., <i>et al.</i> , "Definition of Specific Peptide Motifs for Four Major <i>HLA-A</i> Alleles," <i>J. Immunol.</i> 152:3913-3924, American Association of Immunologists (1994)

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	AR	<u>110</u>	Kumar, A., <i>et al.</i> , "Universal T Helper Cell Determinants Enhance Immunogenicity of a <i>Plasmodium falciparum</i> Merozoite Surface Antigen Peptide," <i>J. Immunol.</i> 148:1499-1505, American Association of Immunologists (1992)
	AS	<u>110</u>	Lasarte, J-J., <i>et al.</i> , "Induction of Cytotoxic T Lymphocytes in Mice against the Principal Neutralizing Domain of HIV-1 by Immunization with an Engineered T-Cytotoxic-T-Helper Synthetic Helper Peptide Construct," <i>Cell. Immunol.</i> 141:211-218, Academic Press Inc. (1992)
	AT	<u>110</u>	Madden, D.R., <i>et al.</i> , "The structure of HLA-B27 reveals nonamer self-peptides bound in an extended conformation," <i>Nature</i> 353:321-325, Nature Publishing Group (1991)

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	AR	<u>111</u>	Maier, R., <i>et al.</i> , "Peptide motifs of HLA-A3, -A24, and -B7 molecules as determined by pool sequencing," <i>Immunogenetics</i> 40:306-308, Springer-Verlag (1994)
	AS	<u>111</u>	Martinon, F., <i>et al.</i> , "Immunization of Mice with Lipopeptides Bypasses the Prerequisite for Adjuvant," <i>J. Immunol.</i> 149:3416-3422, American Association of Immunologists (1992)
	AT	<u>111</u>	Niedermann, G., <i>et al.</i> , "Contribution of Proteasome-Mediated Proteolysis to the Hierarchy of Epitopes Presented by Major Histocompatibility Complex Class I Molecules," <i>Immunity</i> 2:289-299, Cell Press (1995)

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	AR	<u>112</u>	Niedermann, G., <i>et al.</i> , "The specificity of proteasomes: impact on MHC class I processing and presentation of antigens," <i>Immunol. Rev.</i> 172:29-48, Munksgaard (December 1999)
	AS	<u>112</u>	Nikolić-Žugić, J., and Carbone, F.R., "Peptide Presentation by Class-I Major Histocompatibility Complex Molecules," <i>Immunol. Res.</i> 10:54-65, S. Karger AG (1991)
	AT	<u>112</u>	O'Sullivan, D., <i>et al.</i> , "Characterization of the Specificity of Peptide Binding to Four DR Haplotypes," <i>J. Immunol.</i> 145:1799-1808, American Association of Immunologists (1990)

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	AS	<u>113</u>	Panina-Bordignon, P., <i>et al.</i> , "Universally immunogenic T cell eptiopes: promiscuous binding to human MHC class II and promiscuous recognition by T cells," <i>Eur. J. Immunol.</i> 19:2237-2242, VCH Verlagsgesellschaft mbH (1989)
	AT	<u>113</u>	Paz, P., <i>et al.</i> , "Discrete Proteolytic Intermediates in the MHC Class I Antigen Processing Pathway and MHC I-Dependent Peptide Trimming in the ER," <i>Immunity</i> 11:241-251, Cell Press (August 1999)

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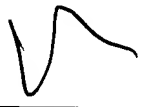


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	AR	114	Penna, A., <i>et al.</i> , "Cytotoxic T Lymphocytes Recognize an HLA-A2-Restricted Epitope Within the Hepatitis B Virus Nucleocapsid Antigen," <i>J. Exp. Med.</i> 174:1565-1570, Rockefeller University Press (1991)
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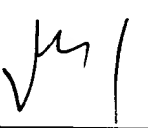


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	AR	<u>115</u>	Rammensee, H-G., <i>et al.</i> , "SYFPEITHI: database for MHC ligands and peptide motifs," <i>Immunogenetics</i> 50:213-219, Springer-Verlag (November 1999)
	AS	<u>115</u>	Reitermann, A., <i>et al.</i> , "Lipopeptide Derivatives of Bacterial Lipoprotein Constitute Potent Immune Adjuvants Combined with or Covalently Coupled to Antigen or Hapten," <i>Biol. Chem. Hoppe Seyler</i> 370:343-352, Walter De Gruyter (1989)
	AT	<u>115</u>	Restifo, N.P., <i>et al.</i> , "Antigen Processing In Vivo and the Elicitation of Primary CTL Responses," <i>J. Immunol.</i> 154:4414-4422, American Association of Immunologists (1995)

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	AR	<u>116</u>	Saper, M.A., <i>et al.</i> , "Refined Structure of the Human Histocompatibility Antigen HLA-A2 at 2.6 Å Resolution," <i>J. Mol. Biol.</i> 219:277-319, Academic Press Ltd. (1991)
	AS	<u>116</u>	Schaeffer, E.B., <i>et al.</i> , "Relative contribution of 'determinant selection' and 'holes in the T-cell repertoire' to T-cell responses," <i>Proc. Natl. Acad. Sci. USA</i> 86:4649-4653, National Academy of Sciences (1989)
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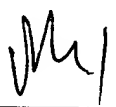
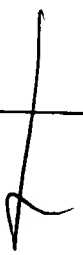

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	AR	117	Sette, A., and Sidney, J., "HLA supertypes and supermotifs: a functional perspective on HLA polymorphism," <i>Curr. Opin. Immunol.</i> 10:478-482, Current Biology Publications (August 1998)
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	AR	<u>118</u>	Sette, A., <i>et al.</i> , "Peptide Binding to the Most Frequent HLA-A Class I Alleles Measured by Quantitative Molecular Binding Assays," <i>Mol. Immunol.</i> 31:813-822, Pergamon Press (1994)
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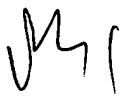


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	AR	119	Sidney, J., <i>et al.</i> , "The HLA-A*0207 Peptide Binding Repertoire is Limited to a Subset of the A*0201 Repertoire," <i>Hum. Immunol.</i> 58:12-20, Elsevier Science Inc. (November 1997)
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	AT	119	Southwood, S., <i>et al.</i> , "Several Common HLA-DR Types Share Largely Overlapping Peptide Binding Repertoires," <i>J. Immunol.</i> 160:3363-3373, American Association of Immunologists (April 1998)

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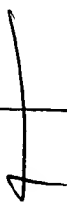

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	AR	120	Sprent, J., and Schaefer, M., "Properties of Purified T Cell Subsets. I. In Vitro Responses to Class I vs. Class II H-2 Alloantigens," <i>J. Exp. Med.</i> 162:2068-2088, Rockefeller University Press (1985)
	AS	120	Stark, J.M., <i>et al.</i> , "Immunogenicity of lipid-conjugated antigens. I. The Influence of Chain Length and Degree of Conjugation on Induction of Antibody in Mice," <i>Immunology</i> 39:345-352, Blackwell Scientific Publications (1980)
	AT	120	Steinman, R.M., "Dendritic cells and immune-based therapies," <i>Exp. Hematol.</i> 24:859-862, Elsevier Science Inc. (1996)

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	AR	<u>121</u>	Sudo, T., <i>et al.</i> , "Differences in MHC Class I Self Peptide Repertoires Among HLA-A2 Subtypes," <i>J. Immunol.</i> 155:4749-4756, American Association of Immunologists (1995)
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	AT	<u>121</u>	Tam, J.P., and Lu, Y-A., "Vaccine engineering: Enhancement of immunogenicity of synthetic peptide vaccines related to hepatitis in chemically defined models consisting of T- and B-cell epitopes," <i>Proc. Natl. Acad. Sci. USA</i> 86:9084-9088, National Academy of Sciences (1989)

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	AR	<u>122</u>	Townsend, A., and Bodmer, H., "Antigen Recognition by Class I-Restricted T Lymphocytes," <i>Ann. Rev. Immunol.</i> 7:601-624, Annual Reviews, Inc. (1989)
	AS	<u>122</u>	von Boehmer, H., and Haas, W., "Distinct Ir Genes for Helper and Killer Cells in the Cytotoxic Response to H-Y Antigen," <i>J. Exp. Med.</i> 150:1134-1142, Rockefeller University Press (1979)
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	AR	<u>123</u>	Wentworth, P.A., <i>et al.</i> , "In Vitro Induction of Primary, Antigen-Specific CTL from Human Peripheral Blood Mononuclear Cells Stimulated with Synthetic Peptides," <i>Mol. Immunol.</i> 32:603-612, Elsevier Science Ltd. (1995)
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	AT	<u>123</u>	Widmann, C., <i>et al.</i> , "T helper epitopes enhance the cytotoxic response of mice immunized with MHC class I-restricted malaria peptides," <i>J. Immunol. Meth.</i> 155:95-99, Elsevier Science Publishers B.V. (1992)

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	AR	<u>124</u>	Wiesmüller, K-H., <i>et al.</i> , "Lipopeptide-Helper-T-Cell Epitope-CTL Epitope Conjugate Induces Antibodies Against the CTL Epitope," <i>Innovation Perspective Solid Phase Synthesis Collect. Papers, Int. Symp. 2nd</i> , pp. 499-502 (1991)
	AS	<u>124</u>	Wiesmüller, K-H., <i>et al.</i> , "Novel low-molecular-weight synthetic vaccine against foot-and mouth disease containing a potent B cell and macrophage activator," <i>Vaccine</i> 7:29-33, Butterworth & Co. (1989)
	AT	<u>124</u>	Yewdell, J.W., and Bennink, J.R., "Immunodominance in Major Histocompatibility Complex Class I-Restricted T Lymphocyte Responses," <i>Annu. Rev. Immunol.</i> 17:51-88, Annual Reviews Inc. (April 1999)

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SETTE *et al.*FILING DATE
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1644**U.S. PATENT DOCUMENTS**

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	AR	<u>125</u>	Zhou, X., <i>et al.</i> , "In vivo primary induction of virus-specific CTL by immunization with 9-mer synthetic peptides," <i>J. Immunol. Methods</i> 153:193-200, Elsevier Science Publishers B.V. (1992)
	AS	<u>125</u>	Zinkernagel, R.M., <i>et al.</i> , "The Lymphoreticular System in Triggering Virus Plus Self-Specific Cytotoxic T Cells: Evidence for T Help," <i>J. Exp. Med.</i> 147:897-911, Rockefeller University Press (1978)
	AT	<u>125</u>	Altuvia, Y. <i>et al.</i> , "A Structure-Based Algorithm to Predict Potential Binding Peptides to MHC Molecules with Hydrophobic Binding Pockets," <i>Human Immunol.</i> 58:1-11, Elsevier Science Inc. (1997)

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

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FIFTH SUPPLEMENT

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET No. 2060.0060008/PAJ/M-M	APPLICATION No. 09/350,401
APPLICANTS Sette <i>et al.</i>	
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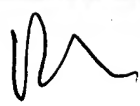

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	AJ200	6,413,935	07/02/2002	Sette <i>et al.</i>	—	—	01/23/1997
	AK200	6,419,931	07/16/2002	Vitiello <i>et al.</i>	—	—	02/16/1994

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	<u>210</u>	U.S. Patent Application No. 10/817,970, Grey <i>et al.</i> , filed April 6, 2004 (NOT PUBLISHED)
	AS	<u>210</u>	U.S. Patent Application No. 10/654,601, Sette <i>et al.</i> , filed September 4, 2003 (Published as US 2005/0063983 A1; document AI201)
	AT		

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M	AA201	6,602,510	08/05/2003	Fikes <i>et al.</i>	—	—	04/05/2000
	AB201	2002/0160960	10/31/2002	Sette <i>et al.</i>	—	—	04/11/2002
	AC201	2003/0143672	07/31/2003	Tangri <i>et al.</i>	—	—	04/05/2002
	AD201	2003/0216342	11/20/2003	Fikes <i>et al.</i>	—	—	02/21/2003
	AE201	2003/0216343	11/20/2003	Fikes <i>et al.</i>	—	—	02/21/2003
	AF201	2004/0096445	05/20/2004	Sidney <i>et al.</i>	—	—	08/22/2001
	AG201	2004/0157273	08/12/2004	Sidney <i>et al.</i>	—	—	01/29/2002
	AH201	2005/0049197	03/03/2005	Sette <i>et al.</i>	—	—	10/07/2004
	AI201	2005/0063983	03/24/2005	Sette <i>et al.</i>	—	—	09/04/2003
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	AA200	4,428,941	01/31/1984	Galibert <i>et al.</i>			04/30/1981
	AB200	4,599,230	07/08/1986	Milich <i>et al.</i>			03/09/1984
	AC200	4,599,231	07/08/1986	Milich <i>et al.</i>			03/09/1984
	AD200	4,818,527	04/04/1989	Thornton <i>et al.</i>			12/09/1986
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	AF200	5,017,558	05/21/1991	Vyas			09/13/1983
	AG200	5,019,386	05/28/1991	Machida <i>et al.</i>			08/29/1988
	AH200	5,783,567	07/21/1998	Hedley <i>et al.</i>			01/22/1997
	AI200	5,840,303	11/24/1998	Chisari <i>et al.</i>			06/06/1995
ms	AJ	5783567	07/21/1998	Hedley <i>et al.</i>			
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ms	AL200	WO 81/00577 ✓	03/05/1981	WIPO	—	—	Yes X No
	AM200	EP 0 271 302 ✓	06/15/1988	Europe	—	—	Yes No
	AN200	EP 0 534 615	03/31/1993	Europe	—	—	Yes No
	AO200	WO 93/03753	03/04/1993	WIPO	—	—	Yes No
w	AP200	WO 97/34621 ✓	09/25/1997	WIPO	—	—	Yes No

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ms	AR	200	Alberti, A., <i>et al.</i> , "Antibody Response to Pre-S2 and Hepatitis B Virus Induced Liver Damage," <i>Lancet</i> 1:1421-1424, Lancet Publishing Group (1988)
	AS	200	Barnaba, V., <i>et al.</i> , "Recognition of Hepatitis B Virus Envelope Proteins by Liver-Infiltrating T Lymphocytes in Chronic HBV Infection," <i>J. Immunol.</i> 143:2650-2655, American Association of Immunologists (1989)
	AT	200	Bertoletti, A., <i>et al.</i> , "Molecular Features of the Hepatitis B Virus Nucleocapsid T-Cell Epitope 18-27: Interaction with HLA and T-Cell Receptor," <i>Hepatology</i> 26:1027-1034, Williams & Wilkins (1997)

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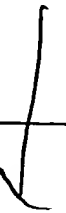

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	AN						Yes No
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	AR	<u>201</u>	Celis, E., <i>et al.</i> , "Recognition of Hepatitis B Surface Antigen by Human T Lymphocytes. Proliferative and Cytotoxic Responses to a Major Antigenic Determinant Defined by Synthetic Peptides," <i>J. Immunol.</i> 140:1808-1815, American Association of Immunologists (1988)
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	AT	<u>201</u>	Ferrari, C., <i>et al.</i> , "Identification of Immunodominant T Cell Epitopes of the Hepatitis B Virus Nucleocapsid Antigen," <i>J. Clin. Invest.</i> 88:214-222, American Society for Clinical Investigation (1991)

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	AR	<u>202</u>	Hayashi, Y., <i>et al.</i> , "Studies on Peptides. CLXVI. Solid-Phase Syntheses and Immunological Properties of Fragment Peptides Related to Human Hepatitis B Virus Surface Antigen (HBsAg) and Its Pre-S2 Gene," <i>Chem. Pharm. Bull.</i> 36:4993-4999, Pharmaceutical Society of Japan (1988)
	AS	<u>202</u>	Hopp, T.P., "Immunogenicity of a Synthetic HBsAg Peptide: Enhancement by Conjugation to a Fatty Acid Carrier," <i>Mol. Immunol.</i> 21:13-16, Pergamon Press (1984)
	AT	<u>202</u>	Jolivet, M., <i>et al.</i> , "Polyvalent synthetic vaccines: relationship between T epitopes and immunogenicity," <i>Vaccine</i> 8:35-40, Butterworth & Co. (1990)

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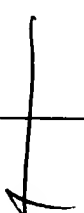

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	AR	<u>203</u>	Kuhröber, A., <i>et al.</i> , "DNA vaccination with plasmids encoding the intracellular (HBcAg) or secreted (HBeAg) form of the core protein of hepatitis B virus primes T cell responses to two overlapping K ^b - and K ^d -restricted epitopes," <i>Int. Immunol.</i> 9:1203-1212, Oxford University Press (1997)
	AS	<u>203</u>	Livingston, B.D., <i>et al.</i> , "Immunization with the HBV Core 18-27 Epitope Elicits CTL Responses In Humans Expressing Different HLA-A2 Supertype Molecules," <i>Hum. Immunol.</i> 60:1013-1017, Elsevier Science (November 1999)
	AT	<u>203</u>	Livingston, B.D., <i>et al.</i> , "The Hepatitis B Virus-Specific CTL Responses Induced in Humans by Lipopeptide Vaccination are Comparable to Those Elicited by Acute Viral Infection," <i>J. Immunol.</i> 159:1383-1392, American Association of Immunologists (1997)

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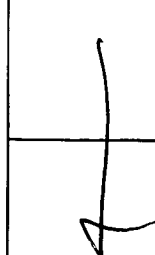

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	AR	<u>204</u>	Milich, D.R., "T- and B-cell recognition of hepatitis B viral antigens," <i>Immunol. Today</i> 9:380-386, Elsevier Science (1988)
	AS	<u>204</u>	Milich, D.R., and Chisari, F.V., "Immunogenetics and Cellular Correlates of the Immune Response to Hepatitis B Surface Antigen Determinants," in <i>Advances in Hepatitis Research</i> , Chisari, F.V., ed., Masson Publishing Co., New York, NY, pp. 91-109 (1984)
	AT	<u>204</u>	Missale, G., <i>et al.</i> , "HLA-A31- and HLA-Aw68-restricted Cytotoxic T Cell Responses to a Single Hepatitis B Virus Nucleocapsid Epitope during Acute Viral Hepatitis," <i>J. Exp. Med.</i> 177:751-762, Rockefeller University Press (1993)

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	AR	<u>205</u>	Moriyama, T., <i>et al.</i> , "Immunobiology and Pathogenesis of Hepatocellular Injury in Hepatitis B Virus Transgenic Mice," <i>Science</i> 248:361-364, American Association for the Advancement of Science (1990)
	AS	<u>205</u>	Nayersina, R., <i>et al.</i> , "HLA A2 Restricted Cytotoxic T Lymphocyte Responses to Multiple Hepatitis B Surface Antigen Epitopes During Hepatitis B Virus Infection," <i>J. Immunol.</i> 150:4659-4671, American Association of Immunologists (1993)
	AT	<u>205</u>	Neurath, A.R., <i>et al.</i> , "Specificity of Antibodies Elicited by a Synthetic Peptide Having a Sequence in Common with a Fragment of a Virus Protein—The Hepatitis B Surface Antigen," <i>Dev. Biol. Stand.</i> 54:103-112, S. Karger (1983)

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	AR	<u>206</u>	Oseroff, C., <i>et al.</i> , "Pools of lipidated HTL-CTL constructs prime for multiple HBV and HCV CTL epitope responses," <i>Vaccine</i> 16:823-833, Elsevier Science (April 1998)
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	AT	<u>206</u>	Rehermann, B., <i>et al.</i> , "The Cytotoxic T Lymphocyte Response to Multiple Hepatitis B Virus Polymerase Epitopes During and After Acute Viral Hepatitis," <i>J. Exp. Med.</i> 181:1047-1058, Rockefeller University Press (1995)

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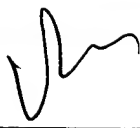
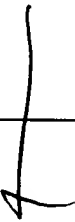

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	AR	207	Sällberg, M., <i>et al.</i> , "Human and Murine B-Cells Recognize the HBeAg/BETA (OR HBe2) Epitope as a Linear Determinant," <i>Mol. Immunol.</i> 28:719-726, Pergamon Press (1991)
	AS	207	Schulz, M., <i>et al.</i> , "Peptide-induced antiviral protection by cytotoxic T cells," <i>Proc. Natl. Acad. Sci. USA</i> 88:991-993, National Academy of Sciences (1991)
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	AR	<u>208</u>	Sobao, Y., <i>et al.</i> , "Identification of hepatitis B virus-specific CTL epitopes presented by HLA-A*2402, the most common HLA class I allele in East Asia," <i>J. Hepatol.</i> 34:922-929, Elsevier (2001)
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FORM PTO-1449




ATTY. DOCKET NO.
2060.0060008/PAJ/M-MAPPLICATION NO.
09/350,401**FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT**APPLICANT(S)
SETTE *et al.*FILING DATE
July 8, 1999ART UNIT
1644**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AM						Yes
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	AN						Yes
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	AO						Yes
							No
	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>209</u>	Vitiello, A., <i>et al.</i> , "Development of a Lipopeptide-based Therapeutic Vaccine to Treat Chronic HBV Infection. I. Induction of a Primary Cytotoxic T Lymphocyte Response in Humans," <i>J. Clin. Invest.</i> 95:341-349, American Society for Clinical Investigation (1995)
	AS	<u>209</u>	Wentworth, P.A., <i>et al.</i> , "In Vitro Induction of Primary, Antigen-Specific CTL from Human Peripheral Blood Mononuclear Cells Stimulated with Synthetic Peptides," <i>Mol. Immunol.</i> 32:603-612, Pergamon Press (1995)
	AT	<u>209</u>	Derwent World Patent Index, English Abstract of WO 81/00577 (Document AL200), Dialog File Number 351, Accession No. 3160881

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
B3	AL1	EP 0 044 710 A1	01/27/1982	Europe	-	-	Yes No
B3	AM1	EP 0 226 513 A1	06/24/1987	Europe	-	-	Yes X No
B3	AN1	WO 92/02543 A1	02/20/1992	WIPO	-	-	Yes No
B3	AO1	WO 92/12996 A2	08/06/1992	WIPO	-	-	Yes No
B3	AP1	WO 92/21033 A1	11/26/1992	WIPO	-	✓	Yes X No

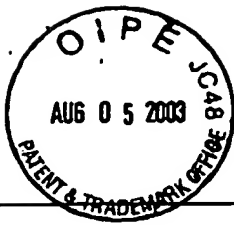
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

B3	AR	1	Aichele, P., et al., "Antiviral cytotoxic T cell response induced by in vivo priming with a free synthetic peptide," J. Exp. Med. 171:1815-1820, Rockefeller University Press (1990)
B3	AS	1	Alexander, J., et al., "Derivation of HLA-A11/K ^b Transgenic Mice. Functional CTL Repertoire and Recognition of Human A11-Restricted CTL Epitopes," J. Immunol. 159:4753-4761, The American Association of Immunologists (1997)
B3	AT	1	Bergmann, C.C., et al., "Differential Effects of Flanking Residues on Presentation of Epitopes from Chimeric Peptides," J. Virol. 68:5306-5310, American Society for Microbiology (August 1994)

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	APPLICANT SETTE et al.	
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MB)	AL2	WO 93/03764 A1	03/04/1993	WIPO			Yes No
↓	AM2	WO 94/03205 A1	02/17/1994	WIPO			Yes No
MB)	AN2	WO 94/11738 A1	05/26/1994	WIPO	—	—	Yes X No
MB	AO2	WO 94/20127 A1	09/15/1994	WIPO			Yes No
MB	AP2	WO 96/03140 A1	02/08/1996	WIPO	—	—	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MB	AR	2	Bertoni, R., et al., "Human Histocompatibility Leukocyte Antigen-binding Supermotifs Predict Broadly Cross-reactive Cytotoxic T Lymphocyte Responses in Patients with Acute Hepatitis," <i>J. Clin. Invest.</i> 100:503-513, The American Society for Clinical Investigation, Inc. (1997)
MB	AS	2	Bertoni, R., et al., "Human Class I Supertypes and CTL Repertoires Extend to Chimpanzees," <i>J. Immunol.</i> 161:4447-4455, American Association of Immunologists (1998)
MB	AT	2	Bjorkman, P.J., et al., "Structure of the human class I histocompatibility antigen, HLA-A2," <i>Nature</i> 329:506-512, Macmillan Publishers, Ltd. (1987)

EXAMINER 	DATE CONSIDERED 7/9/2005
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MB1	AR	3	Bjorkman, P.J., et al., "The foreign antigen binding site and T cell recognition regions of class I histocompatibility antigens," Nature 329:512-518, Macmillan Publishers, Ltd. (1987)
MB1	AS	3	Buus, S., et al., "Autologous Peptides Constitutively Occupy the Antigen Binding Site on Ia," Science 242:1045-1047, American Association for the Advancement of Science (1988)
MB1	AT	3	Carreno, B.M., et al., "HLA-B37 and HLA-A2.1 molecules bind largely nonoverlapping sets of peptides," Proc. Natl. Acad. Sci. USA 87:3420-3424, National Academy Press (1990)

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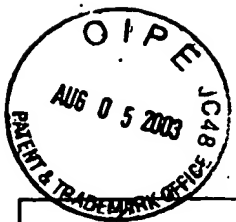
W31	AR	4	Corr. M., et al., "Endogenous Peptides of a Soluble Major Histocompatibility Complex Class I Molecule, H-2L ^d : Sequence Motif, Quantitative Binding, and Molecular Modeling of the Complex," J. Exp. Med. 176:1681-1692, Rockefeller University Press (December 1992)
W31	AS	4	De Bruijn, M.L.H., et al., "Peptide loading of empty major histocompatibility complex molecules on RMA-S cells allows the induction of primary cytotoxic T lymphocyte responses," Eur. J. Immunol. 21:2963-2970, VCH Verlagsgesellschaft mbH (1991)
W31	AT	4	Del Val, M., et al., "Efficient Processing of an Antigenic Sequence for Presentation by MHC Class I Molecules Depends on Its Neighboring Residues in the Protein," Cell 66:1145-1153, Cell Press (1991)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>m1</i>	AR	<u>5</u>	Deres, K., et al., "In vivo priming of virus-specific cytotoxic T lymphocytes with synthetic lipopeptide vaccine," Nature 342:561-564, Macmillan Publishers, Ltd. (1989)
<i>m1</i>	AS	<u>5</u>	DiBrino, M., et al., "HLA-A1 and HLA-A3 T Cell Epitopes Derived from Influenza Virus Proteins Predicted from Peptide Binding Motifs," J. Immunol. 151:5930-5935, The Association of Immunologists (December 1993)
<i>m1</i>	AT	<u>5</u>	DiBrino, M., et al., "Endogenous peptides bound to HLA-A3 possess a specific combination of anchor residues that permit identification of potential antigenic peptides," Proc. Natl. Acad. Sci. USA 90:1508-1512, National Academy Press (February 1993)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

WZ/	AR	6	Ding, Y.-H., et al., "Two Human T Cell Receptors Bind in a Similar Diagonal Mode to the HLA-A2/Tax Peptide Complex Using Different TCR Amino Acids," <i>Immunity</i> 8:403-11, Cell Press (1998)
M/	AS	6	Eisenlohr, L.C., et al., "Flanking Sequences Influence the Presentation of an Endogenously Synthesized Peptide to Cytotoxic T Lymphocytes," <i>J. Exp. Med.</i> 175:481-487, The Rockefeller University Press (February 1992)
M/	AT	6	Engelhard, V.H., "Structure of peptides associated with MHC Class I molecules," <i>Curr. Opin. Immunol.</i> 6:13-23, Current Biology, Ltd. (February 1994)

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1644**U.S. PATENT DOCUMENTS**

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

VS	AR	2	Falk, K., et al., "Allele-specific motifs revealed by sequencing of self-peptides eluted from MHC molecules," <i>Nature</i> 351:290-296, Macmillan Publishers, Ltd. (1991)
↓	AS	2	Falk, K., et al., "MHC peptide motif register. Peptide motifs of HLA-B35 and -B37 molecules," <i>Immunogenetics</i> 38:161-162, Springer-Verlag (April 1993)
↓	AT	2	Falk, K., et al., "Allele-specific peptide ligand motifs of HLA-C molecules," <i>Proc. Natl. Acad. Sci. USA</i> 90:12005-12009, National Academy Press (December 1993)

EXAMINER

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FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2060.0060008/EKS/PAJ/M-M	APPLICATION NO. 09/350,401
	APPLICANT SETTE et al.	
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Falk, K., et al., "Pool sequencing of natural HLA-DR, DQ, and DP ligands reveals detailed peptide motifs, constraints of processing, and general rules," <i>Immunogenetics</i> 39:230-242, Springer-Verlag (February 1994)
	AS	8	Falk, K., et al., "Peptide motifs of HLA-A1, -A11, -A31, and -A33 molecules," <i>Immunogenetics</i> 40:238-241, Springer-Verlag (July 1994)
	AT	8	Foon, K.A., "Biological Response Modifiers: The New Immunotherapy," <i>Cancer Res.</i> 49:1621-1639, American Association for Cancer Research (1989)

EXAMINER 	DATE CONSIDERED 7/9/2003
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

√ 31	AR	2	Geysen, H.M., et al., "Cognitive Features of Continuous Antigenic Determinants," J. Mol. Recognit. 1:32-41, Heyden & Sons, Ltd. (1988)
↓	AS	2	Guo, H.-C., et al., "Different length peptides bind to HLA-Aw68 similarly at their ends but bulge out in the middle," Nature 360:364-366, Macmillan Publishers, Ltd. (November 1992)
↓	AT	2	Henderson, R.A., et al., "HLA-A2.1-Associated Peptides from a Mutant Cell Line: A Second Pathway of Antigen Presentation," Science 255:1264-1266, American Association for the Advancement of Science (March 1992)

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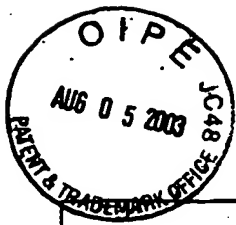
	AR	<u>10</u>	Hill, A., et al., "Characterization of two Epstein-Barr virus epitopes restricted by HLA-B7," <i>Eur. J. Immunol.</i> 25:18-24, VCH Verlagsgesellschaft mbH (1995)
	AS	<u>10</u>	Hunt, D.F., et al., "Characterization of Peptides Bound to the Class I MHC Molecule HLA-A2.1 by Mass Spectrometry," <i>Science</i> 255:1261-1263, American Association for the Advancement of Science (March 1992)
	AT	<u>10</u>	Ishioka, G.Y., et al., "Utilization of MHC Class I Transgenic Mice for Development of Minigene DNA Vaccines Encoding Multiple HLA-Restricted CTL Epitopes," <i>J. Immunol.</i> 162:3915-3925, The American Association of Immunologists (1999)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>11</u>	Jameson, S.C., and Bevan, M.J., "Dissection of major histocompatibility complex (MHC) and T cell receptor contact residues in a K ^B -restricted ovalbumin peptide and an assessment of the predictive power of MHC-binding motifs," Eur. J. Immunol. 22:2663-2667, VCH Verlagsgesellschaft mbH (October 1992)
	AS	<u>11</u>	Jardetzky, T.S., et al., "Identification of self peptides bound to purified HLA-B27," Nature 353:326-329, Macmillan Publishers, Ltd. (1991)
	AT	<u>11</u>	Kannagi, M., et al., "Target Epitope in the Tax Protein of Human T-Cell Leukemia Virus Type I Recognized by Class I Major Histocompatibility Complex-Restricted Cells," J. Virol. 66:2928-2933, American Society for Microbiology (May 1992)

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	AO						Yes No
	AP						Yes No

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P35	AR	12	Kast, W.M., et al., "Protection against lethal Sendai virus infection by <i>in vivo</i> priming of virus-specific cytotoxic T lymphocytes with a free synthetic peptide," <i>Proc. Natl. Acad. Sci. USA</i> 88:2283-2287, National Academy Press (1991)
↓	AS	12	Kast, W.M., et al., "Strict peptide length is not required for the induction of cytotoxic T lymphocyte-mediated antiviral protection by peptide vaccination," <i>Eur. J. Immunol.</i> 23:1189-1192, VCH Verlagsgesellschaft mbH (May 1993)
↓	AT	12	Krieger, J.I., et al., "Single amino acid changes in DR and antigen define residues critical for peptide-MHC binding and T cell recognition," <i>J. Immunol.</i> 146:2331-2340, American Association of Immunologists (1991)

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	AO						Yes No
	AP						Yes No

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AR	13	Lipford, G.B., et al., "Primary in Vivo Responses to Ovalbumin. Probing the Predictive Value of the K ^b Binding Motif," J. Immunol. 150:1212-1222, The American Association of Immunologists (February 1993)
AS	13	Maryanski, J.L., et al., "Synthetic peptides as antigens and competitors in recognition by H-2-restricted cytolytic T cells specific for HLA," J. Exp. Med. 167:1391-1405, Rockefeller University Press (1988)
AT	13	Maryanski, J.L., et al., "Competitor Analogs for Defined T Cell Antigens: Peptides Incorporating a Putative Binding Motif and Polyproline or Polyglycine Spacers," Cell 60:63-72, Cell Press (1990)

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
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	AL						Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MB	AR	14	Morrison, J., et al., "Identification of the nonamer peptide from influenza A matrix protein and the role of pockets of HLA-A2 in its recognition by cytotoxic T lymphocytes," <i>Eur. J. Immunol.</i> 22:903-907, VCH Verlagsgesellschaft mbH (April 1992)
f	AS	14	Niedermann, G., et al., "The proteolytic fragments generated by vertebrate proteosomes: Structural relationships to major histocompatibility complex class I binding peptides," <i>Proc. Natl. Acad. Sci. USA</i> 93:8572-8577, National Academy Press (1996)
H	AT	14	Ochoa-Garay, J., et al., "The ability of peptides to induce cytotoxic T cells in vitro does not strongly correlate with their affinity for the H-2L ^d molecule: implications for vaccine design and immunotherapy," <i>Mol. Immunol.</i> 34:273-281, Elsevier Science, Ltd. (1997)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

pm	AR	15	Pamer, E.G., et al., "Precise prediction of a dominant class I MHC-restricted epitome of <i>Listeria monocytogenes</i> ," <i>Nature</i> 353:852-855, Macmillan Publishers, Ltd. (1991)
↓	AS	15	Parham, P., et al., "The Origins of HLA-A,B,C Polymorphism," <i>Immunol. Rev.</i> 143:141-180, Munksgaard (1995)
↓	AT	15	Parker, K.C., et al., "Peptide Binding to HLA-A2 and HLA-B27 Isolated from <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 267:5451-5459, American Society for Biochemistry and Molecular Biology, Inc. (March 1992)

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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MS	AR	16	Parker, K.C., et al., "Sequence motifs important for peptide binding to the human MHC class I molecule, HLA-A2," <i>J. Immunol.</i> 149:3580-3587, American Association of Immunologists (December 1992)
↓	AS	16	Rammensee, H.-G., et al., "Peptides Naturally Presented by MHC Class I Molecules," <i>Annu. Rev. Immunol.</i> 11:213-244, Annual Reviews, Inc. (January 1993)
↓	AT	16	Rammensee, H.-G., et al., "MHC ligands and peptide motifs: first listing," <i>Immunogenetics</i> 41:178-228, Springer-Verlag (1995)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ms	AR	17	Reddehase, M.J., et al., "A pentapeptide as minimal antigenic determinant for MHC class I-restricted T lymphocytes," <i>Nature</i> 337:651-653, Macmillan Publishers, Ltd. (1989)
	AS	17	Romero, P., et al., "H-2K ^d -restricted Antigenic Peptides Share a Simple Binding Motif," <i>J. Exp. Med.</i> 174:603-612, Rockefeller University Press (1991)
	AT	17	Rothbard, J.B., "Major histocompatibility complex-peptide interactions," <i>Curr. Opin. Immunol.</i> 2:99-105, Current Biology, Ltd. (1989)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MS	AR	18	Röttschke, O., et al., "Isolation and analysis of naturally processed viral peptides as recognized by cytotoxic T cells," <i>Nature</i> 348:252-254, Macmillan Publishers, Ltd. (1990)
	AS	18	Röttschke, O., et al., "Characterization of Naturally Occurring Minor Histocompatibility Peptides Including H-4 and H-Y," <i>Science</i> 249:283-287, American Association for the Advancement of Science (1990)
h	AT	18	Röttschke, O., and Falk, K., "Naturally-occurring peptide antigens derived from the MHC class-I-restricted processing pathway," <i>Immunol. Today</i> 12:447-455, Elsevier Science Publishers, Ltd. (1991)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ms	AR	19	Rotzschke, O., et al., "Peptide motifs of closely related HLA class I molecules encompass substantial differences," <i>Eur. J. Immunol.</i> 22:2453-2456, VCH Verlagsgesellschaft mbH (September 1992)
↓	AS	19	Röttschke, O., and Falk, K., "Origin, structure and motifs of naturally processed MHC class II ligands," <i>Curr. Opin. Immunol.</i> 6:45-51, Current Biology, Ltd. (February 1994)
↓	AT	19	Rudinger, J., "Characteristics of the amino acids as components of a peptide hormone sequence," in <i>Peptide Hormones</i> , Parsons, J.A., ed., University Park Press, Baltimore, MD, pp.1-7 (1976)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

W31	AR	20	Ruppert, J., et al., "Prominent Role of Secondary Anchor Residues in Peptide Binding to HLA-A2.1 Molecules," Cell 74:929-937, Cell Press (September 1993)
MB3	AS	20	Schulz, M., et al., "Major histocompatibility complex binding and T cell recognition of a viral nonapeptide containing a minimal tetrapeptide," Eur. J. Immunol. 21:1181-1185, VCH Verlagsgesellschaft mbH (1991)
↓	AT	20	Sette, A., et al., "Prediction of major histocompatibility complex binding regions of protein antigens by sequence pattern analysis," Proc. Natl. Acad. Sci. USA 86:3296-3300, National Academy Press (1989)

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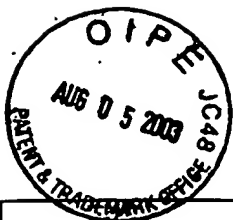
B3C	AR	21	Sette, A., et al., "Random association between the peptide repertoire of A2.1 class I and several different DR class II molecules," J. Immunol. 147:3893-3900, The American Association of Immunologists (1991)
B3J	AS	21	Sette, A., et al., "The Relationship Between Class I Binding Affinity and Immunogenicity of Potential Cytotoxic T Cell Epitopes," J. Immunol. 153:5586-5592, The American Association of Immunologists (December 1994)
B3I	AT	21	Shastri, N., et al., "Presentation of Endogenous Peptide/MHC Class I Complexes Is Profoundly Influenced by Specific C-Terminal Flanking Residues," J. Immunol. 155: 4339-4346, The American Association of Immunologists (1995)

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FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2060.0060008/EKS/PAJ/M-M	APPLICATION NO. 09/350,401
	APPLICANT SETTE et al.	
	FILING DATE July 8, 1999	GROUP 1644

U.S. PATENT DOCUMENTS


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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M/	AR	22	Sherman, L.A., et al., "Extracellular Processing of Peptide Antigens That Bind Class I Major Histocompatibility Molecules," <i>J. Exp. Med.</i> 175:1221-1226, The Rockefeller University Press (May 1992)
↓	AS	22	Shimojo, N., et al., "Specificity of peptide binding by the HLA-A2.1 molecule," <i>J. Immunol.</i> 143:2939-2947, The American Association of Immunologists (1989)
↓	AT	22	Sidney, J., et al., "Several HLA Alleles Share Overlapping Peptide Specificities," <i>J. Immunol.</i> 154:247-259, The American Association of Immunologists (1995)

EXAMINER 	DATE CONSIDERED 7/9/2005
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	AO						Yes No
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	AR	23	Threlkeld, S.C., et al., "Degenerate and Promiscuous Recognition by CTL of Peptides Presented by the MHC Class I A1-like Superfamily Implications for Vaccine Development," J. Immunol. 159:1648-1657, The American Association of Immunologists (1997)
W31	AS	23	Wentworth, P.A., et al., "Differences and similarities in the A2.1-restricted cytotoxic T cell repertoire in humans and human leukocyte antigen-transgenic mice," Eur. J. Immunol. 26:97-101, VCH Verlagsgesellschaft mbH (1996)
W21	AT	23	Whitton, J.L., et al., "Molecular Analyses of a Five-Amino-Acid Cytotoxic T-Lymphocyte (CTL) Epitope: an Immunodominant Region Which Induces Nonreciprocal CTL Cross-Reactivity," J. Virol. 63:4303-4310, American Society for Microbiology (1989)

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	APPLICANT SETTE et al.	
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MS	AR	24	Yewdell, J.W., and Bennink, J.R., "Cell Biology of Antigen Processing and Presentation to Major Histocompatibility Complex Class I Molecule-Restricted T Lymphocytes," <i>Adv. Immunol.</i> 52:1-123, Academic Press (July 1992)
	AS	24	York, I.A., and Rock, K.L., "Antigen processing and presentation by the class I major histocompatibility complex," <i>Annu. Rev. Immunol.</i> 14:369-396, Annual Reviews, Inc. (1996)
K	AT	24	Zhang, Q-J., et al., "An HLA-A11-specific motif in nonamer peptides derived from viral and cellular proteins," <i>Proc. Natl. Acad. Sci. USA</i> 90:2217-2221, National Academy Press (March 1993)

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	AO						Yes No
	AP						Yes No

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Mh)	AR	25	Parker, K.C., et al., "Scheme for Ranking Potential HLA-A2 Binding Peptides Based on Independent Binding of Individual Peptide Side-Chains," J. Immunol. 152:163-175, The American Association of Immunologists (January 1994)
I	AS	25	Derwent World Patent Index, Dialog File 351, Accession No. 7180926, Derwent WPI English language abstract for EP 0 226 513.
A	AT	25	Derwent World Patent Index, Dialog File 351, Accession No. 9263567, Derwent WPI English language abstract for WO 92/21033.

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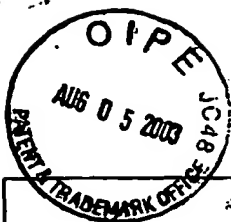
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mi	AR	26	Human World Patent Index Dialog File 351, Accession No. 9888606, Derwent WPI English language abstract for WO 94/11738.
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FORM PTO-1449

**SECOND SUPPLEMENTAL
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MB	AL3	EP 0 429 816 A1	06/05/1991	Europe	—	—	Yes No
	AM3	EP 0 469 281 A1	02/05/1992	Europe	—	—	Yes No
	AN3	EP 0 491 077 A1	06/24/1992	Europe	—	—	Yes No
	AO3	WO 93/03753	03/04/1993	WIPO	—	—	Yes No
	AP3	WO 94/19011	09/01/1994	WIPO	—	—	Yes No

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	AR		
MB	AS	26	Alexander, J., et al., "The Optimization of Helper T Lymphocyte (HTL) Function in Vaccine Development," <i>Immunol. Res.</i> 18:79-92, Humana Press Inc. (1998).
MS	AT	26	Ando, K., et al., "Mechanisms of Class I Restricted Immunopathology. A Transgenic Mouse Model of Fulminant Hepatitis," <i>J. Exp. Med.</i> 178:1541-1554, The Rockefeller University Press (November 1993).

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	APPLICANT SETTE et al.	
	FILING DATE July 8, 1999	GROUP 1644

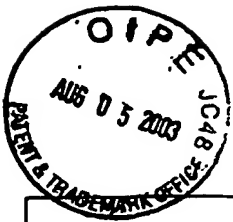
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MB ↓	AL4	WO 95/03777	02/09/1995	WIPO	—	—	Yes No
	AM4	WO 95/22317	08/24/1995	WIPO	—	—	Yes No
	AN4	WO 99/45954	09/16/1999	WIPO	—	—	Yes No
	AO4	EP 1 018 558 A2	07/12/2000	Europe	—	—	Yes No
	AP4	WO 02/19986 A1	03/14/2002	WIPO	—	—	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
MB ↓	AR	27	Barnaba, V., et al., "Selective killing of hepatitis B envelope antigen-specific B cells by class I-restricted, exogenous antigen-specific T lymphocytes," Nature 345:258-260, Nature Publishing Co. (1990).				
	AS	27	Bertoletti, A., et al., "Definition of a Minimal Optimal Cytotoxic T-Cell Epitope within the Hepatitis B Virus Nucleocapsid Protein," J. Virol. 67:2376-2380, American Society for Microbiology (April 1993).				
	AT	27	Bertoletti, A., et al., "Natural variants of cytotoxic epitopes are T-cell receptor antagonists for antiviral cytotoxic T cells," Nature 369:407-410, Nature Publishing Co. (June 1994).				

EXAMINER 	DATE CONSIDERED → 1/4/2005
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FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2060.0060008/EKS/PAJ/M-M	APPLICATION NO. 09/350,401
	APPLICANT SETTE et al.	
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U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MS	AR	28	Bertoletti, A., et al., "HLA class I-restricted human cytotoxic T cells recognize endogenously synthesized hepatitis B virus nucleocapsid antigen," <i>Proc. Natl. Acad. Sci. USA</i> 88:10445-10449, National Academy of Sciences (1991).
	AS	28	Bertoni, M., et al., "Human Histocompatibility Leukocyte Antigen-binding Supermotifs Predict Broadly Cross-Reactive Cytotoxic T Lymphocyte Responses in Patients with Acute Hepatitis," <i>J. Clin. Invest.</i> 100:503-513, The American Society for Clinical Investigation, Inc. (1997)
	AT	28	Bhatnagar, P.K., et al., "Immune response to synthetic peptide analogues of hepatitis B surface antigen specific for the a determinant," <i>Proc. Natl. Acad. Sci. USA</i> 79:4400-4404, National Academy of Sciences (1982).

EXAMINER	DATE CONSIDERED 7/9/99
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	29	Borras-Cuesta, F., et al., "Engineering of immunogenic peptides by co-linear synthesis of determinants recognized by B and T cells," Eur. J. Immunol. 17:1213-1215, VCH Verlagsgesellschaft mbH (1987).
	AS	29	Bruss, V., "A Short Linear Sequence in the Pre-S Domain of the Large Hepatitis B Virus Envelope Protein Required for Virion Formation," J. Virol. 71:9350-9357, American Society for Microbiology (1997).
	AT	29	Celis, E., et al., "Recognition of Hepatitis B Surface Antigen by Human T Lymphocytes," J. Immunol. 140:1808-1815, The American Association of Immunologists (1988).

EXAMINER	DATE CONSIDERED 7/14/2003
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U.S. PATENT DOCUMENTS

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

my	AR	30	Chang, K.-M., et al., "Identification of HLA-A3 and -B7-Restricted CTL Response to Hepatitis C Virus in Patients with Acute and Chronic Hepatitis C," <i>J. Immunol.</i> 162:1156-1164, The American Association of Immunologists (1999).
I	AS	30	Chisari, F.V., "Hepatitis B Virus Immunopathogenesis," <i>Annu. Rev. Immunol.</i> 13:29-60, Annual Reviews Inc. (1995).
J	AT	30	del Guercio, M.-F., et al., "Binding of a Peptide Antigen to Multiple HLA Alleles Allows Definition of an A2-Like Supertype," <i>J. Immunol.</i> 154:685-693, The American Association of Immunologists (1995).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	31	Diepolder, H.M., et al., "Immunodominant CD4 ⁺ T-Cell Epitope within Nonstructural Protein 3 in Acute Hepatitis C Virus Infection," <i>J. Virol.</i> 71:6011-6019, American Society for Microbiology (1997).
	AS	31	Fayolle, C., et al., "In Vivo Induction of Cytotoxic T Cell Response by a Free Synthetic Peptide Requires CD4 ⁺ T Cell Help," <i>J. Immunol.</i> 147:4069-4073, The American Association of Immunologists (1991).
	AT	31	Ferrari, C., et al., "Identification of Immunodominant T Cell Epitopes of the Hepatitis B Virus Nucleocapsid Antigen," <i>J. Clin. Invest.</i> 88:214-222, The American Society for Clinical Investigation, Inc. (1991).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	32	Fujii, N., et al., "Synthesis of Peptide Fragments of Hepatitis B Virus Surface Antigen (HbsAg) and Their Immunogenicity," in <i>Peptide Chemistry</i> , Munekata, E., ed., Protein Research Foundation, Osaka, Japan, pp. 215-220 (1983).
	AS	32	Hayashi, Y., et al., "Studies on Peptides. CLXVI. Solid-Phase Syntheses and Immunological Properties of Fragment Peptides Related to Human Hepatitis B Virus Surface Antigen (HbsAg) and Its Pre-S2 Gene," <i>Chem. Pharm. Bull.</i> 36:4993-4999, Pharmaceutical Society of Japan (1988).
	AT	32	Hopp, T.P., "Immunogenicity of a Synthetic HbsAg Peptide: Enhancement by Conjugation to a Fatty Acid Carrier," <i>Mol. Immunol.</i> 21:13-16, Pergamon Press Ltd. (1984).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M/	AR	33	Ishioka, G.Y., et al., "Class I MHC-restricted, Peptide-specific Cytotoxic T Lymphocytes Generated by Peptide Priming In Vivo," in <i>Vaccines 90</i> , Brown, F., et al., eds., Cold Spring Harbor Laboratory Press, pp. 7-11 (1990).
M/	AS	33	Kondo, A., et al., "Prominent Roles of Secondary Anchor Residues in Peptide Binding to HLA-A24 Human Class I Molecules," <i>J. Immunol.</i> 155:4307-4312, The American Association of Immunologists (1995).
M/	AT	33	Lamonaca, V., et al., "Conserved Hepatitis C Virus Sequences Are Highly Immunogenic for CD4 ⁺ T Cells: Implications for Vaccine Development," <i>Hepatology</i> 30:1088-1098, American Association for the Study of Liver Diseases (1999).

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	34	Lerner, R.A., et al., "Chemically synthesized peptides predicted from the nucleotide sequence of the hepatitis B virus genome elicit antibodies reactive with the native envelope protein of Dane particles," <i>Proc. Natl. Acad. Sci. USA</i> 78:3403-3407, National Academy of Sciences (1981).
	AS	34	Milich, D.R., et al., "Immune Response to Hepatitis B Virus Core Antigen (HbcAg): Localization of T Cell Recognition Sites Within HbcAg/HBeAg," <i>J. Immunol.</i> 139:1223-1231, The American Association of Immunologists (1987).
	AT	34	Milich, D.R., "Probing T Cell Antigen Recognition: Use of Synthetic Peptides," <i>Pept. Res.</i> 3:85-96, Eaton Publishing Co. (1990).

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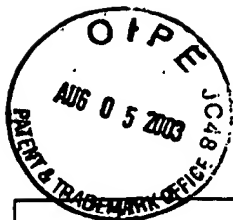
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	AL						Yes No
	AM						Yes No
	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	35	Nayersina, R., et al., "HLA A2 Restricted Cytotoxic T Lymphocyte Responses to Multiple Hepatitis B Surface Antigen Epitopes during Hepatitis B Virus Infection," <i>J. Immunol.</i> 150:4659-4671, The American Association of Immunologists (May 1993).
	AS	35	Penna, A., et al., "Hepatitis B Virus (HBV)-Specific Cytotoxic T-Cell (CTL) Response in Humans: Characterization of HLA Class II-Restricted CTLs That Recognize Endogenously Synthesized HBV Envelope Antigens," <i>J. Virol.</i> 66:1193-1198, American Society for Microbiology (February 1992).
	AT	35	Penna, A., et al., "Cytotoxic T Lymphocytes Recognize an HLA-A2-restricted Epitope within the Hepatitis B Virus Nucleocapsid Antigen," <i>J. Exp. Med.</i> 174:1565-1570, The Rockefeller University Press (1991).

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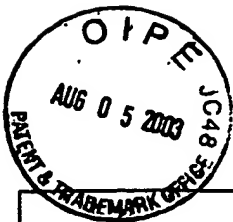
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

✓B1	AR	36	Preisler-Adams, S., et al., "Complete nucleotide sequence of a hepatitis B virus, subtype adw2, and identification of three types of C open reading frame," Nucl. Acids Res. 21:2258, Oxford University Press (May 1993).
✓M1	AS	36	Prezzi, C., et al., "Virus-specific CD8 ⁺ T cells with type 1 or type 2 cytokine profile are related to different disease activity in chronic hepatitis C virus infection," Eur. J. Immunol. 31:894-906, Wiley-VCH Verlag GmbH (2001).
✓M1	AT	36	Rehermann, B., et al., "The Cytotoxic T Lymphocyte Response to Multiple Hepatitis B Virus Polymerase Epitopes During and After Acute Viral Hepatitis," J. Exp. Med. 181:1047-1058, The Rockefeller University Press (1995).

EXAMINER

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	37	Rehermann, B., et al., "Cytotoxic T Lymphocyte Responsiveness after Resolution of Chronic Hepatitis B Virus Infection," J. Clin. Invest. 97:1655-1665, The American Society for Clinical Investigation, Inc. (1996).
M1	AS	37	Sällberg, M., et al., "Human and Murine B-Cells Recognize the HbeAg/Beta (or HBe2) Epitope as a Linear Determinant," Mol. Immunol. 28:719-726, Pergamon Press (1991).
My	AT	37	Scognamiglio, P., et al., "Presence of Effector CD8 ⁺ Cells in Hepatitis C Virus-Exposed Healthy Seronegative Donors," J. Immunol. 162:6681-6689, The American Association of Immunologists (1999).

EXAMINER 	DATE CONSIDERED 7/9/99
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M1	AR	38	Sidney, J., et al., "Specificity and Degeneracy in Peptide Binding to HLA-B7-Like Class I Molecules," J. Immunol. 157:3480-3490, The American Association of Immunologists (1996).
I	AS	38	Sidney, J., et al., "Definition of an HLA-A3-Like Supermotif Demonstrates the Overlapping Peptide-Binding Repertoires of Common HLA Molecules," Hum. Immunol. 45:79-93, American Society for Histocompatibility and Immunogenetics (1996).
2	AT	38	Toes, R.E.M., et al., "Enhancement of Tumor Outgrowth Through CTL Tolerization After Peptide Vaccination Is Avoided by Peptide Presentation on Dendritic Cells," J. Immunol. 160:4449-4456, The American Association of Immunologists (1998).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
M31	AR	39	Wakita, T., et al., "Gamma-Interferon Production in Response to Hepatitis B Core Protein and Its Synthetic Peptides in Patients with Chronic Hepatitis B Virus Infection," <i>Digestion</i> 47:149-155, S. Karger AG (1990).				
	AG	39	Pending Non-Provisional United States Patent Application No. 08/591,502, Chisari et al., filed May 20, 1996 (NOT PUBLISHED)				
	AT	39	Pending Non-Provisional United States Patent Application No. 09/350,401, Sette et al., filed July 8, 1999, Cover page, Tables and Claims only (NOT PUBLISHED).				

EXAMINER 	DATE CONSIDERED 7/6/2001
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	40	Barber, L.D., et al., "Overlap in the repertoires of peptides bound <i>in vivo</i> by a group of related class I HLA-B allotypes," Curr. Biol. 5:179-190, Current Biology Ltd. (1995).
	AS	40	Battegay, M., et al., "Patients with Chronic Hepatitis C Have Circulating Cytotoxic T Cells Which Recognize Hepatitis C Virus-Encoded Peptides Binding to HLA-A2.1 Molecules," J. Virol. 69:2462-2470, American Society for Microbiology (1995).
	AT	40	Cerny, A., et al., "Cytotoxic T Lymphocyte Response to Hepatitis C Virus-derived Peptides Containing the HLA A2.1 Binding Motif," J. Clin. Invest. 95:521-530, The American Society for Clinical Investigation, Inc. (1995).

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July 8, 1999GROUP
1644**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>41</u>	Cohen, J., "The Scientific Challenge of Hepatitis C," <i>Science</i> 285:26-30, American Association for the Advancement of Science (1999).
	AS	<u>41</u>	Shirai, M., et al., "CTL Responses of HLA-A2.1-Transgenic Mice Specific for Hepatitis C Viral Peptides Predict Epitopes for CTL of Humans Carrying HLA-A2.1," <i>J. Immunol.</i> 154:2733-2742, The American Association of Immunologists (1995).
	AT	<u>41</u>	Wentworth, P.A., et al., "Identification of A2-restricted hepatitis C virus-specific cytotoxic T lymphocyte epitopes from conserved regions of the viral genome," <i>Int. Immunol.</i> 8:651-659, Oxford University press (1996).

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FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
2060.0060008/EKS/PAJ/M-MAPPLICATION NO.
09/350,401APPLICANT
SETTE et al.FILING DATE
July 8, 1999GROUP
1644

U.S. PATENT DOCUMENTS

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

031	AR	42	Wong, D.K.H., et al., "Liver-Derived CTL in Hepatitis C Virus Infection: Breadth and Specificity of Responses in a Cohort of Persons with Chronic Infection," <i>J. Immunol.</i> 160:1479-1488, The American Association of Immunologists (1998).
	AS	42	Pending Non-Provisional U.S. Patent Application No. 09/239,043, Sette et al., filed January 27, 1999 (NOT PUBLISHED).
	AT	42	Pending Non-Provisional U.S. Patent Application No. 10/363,990, Sette et al., filed March 10, 2003 (PUBLISHED AS WO-02/19986 A1; see Document AP3.)

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Title of Invention	Inducing Cellular Immune Responses to Hepatitis B Virus Using Peptide and Nucleic Acid Compositions																																																																																																																																						
<p>Application Number: 09/350401</p> <p>Confirmation Number: 8008</p> <p>First Named Applicant: Alessandro Sette</p> <p>Attorney Docket Number: 2060.0060008</p> <p>Search string: (4428941 or 4599230 or 4599231 or 4818527 or 4882145 or 5017558 or 5019386 or 5039522 or 5143726 or 5196194 or 5780036 or 5788969 or 5840303 or 5932224 or 6037135 or 6235288 or 5200320 or 5503829 or 5662907 or 6034214 or 6037135 or 20020168374 or 20020177694 or 20020098197 or 20030021809).pn.</p> <p>US Patent Documents</p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>4428941</td><td>1984-01-31</td><td>Galibert et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>4599230</td><td>1986-07-08</td><td>Milich et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>4599231</td><td>1986-07-08</td><td>Milich et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>4818527</td><td>1989-04-04</td><td>Thornton et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>4882145</td><td>1989-11-21</td><td>Thornton et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>5017558</td><td>1991-05-21</td><td>Vyas</td><td></td><td></td><td></td></tr><tr><td></td><td>7</td><td>5019386</td><td>1991-05-28</td><td>Machida et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>8</td><td>5039522</td><td>1991-08-13</td><td>Neurath</td><td></td><td></td><td></td></tr><tr><td></td><td>9</td><td>5143726</td><td>1992-09-01</td><td>Thornton et al.</td><td></td><td></td><td></td></tr><tr><td>745</td><td>10</td><td>5196194</td><td>1993-03-23</td><td>Rutter et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>11</td><td>5780036</td><td>1998-07-14</td><td>Chisari</td><td></td><td></td><td></td></tr><tr><td></td><td>12</td><td>5788969</td><td>1998-08-04</td><td>Chisari</td><td></td><td></td><td></td></tr><tr><td></td><td>13</td><td>5840303</td><td>1998-11-24</td><td>Chisari et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>14</td><td>5932224</td><td>1999-08-03</td><td>Chisari</td><td></td><td></td><td></td></tr><tr><td></td><td>15</td><td>6037135</td><td>2000-03-14</td><td>Kubo et al.</td><td></td><td></td><td></td></tr></tbody></table>								init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass		1	4428941	1984-01-31	Galibert et al.					2	4599230	1986-07-08	Milich et al.					3	4599231	1986-07-08	Milich et al.					4	4818527	1989-04-04	Thornton et al.					5	4882145	1989-11-21	Thornton et al.					6	5017558	1991-05-21	Vyas					7	5019386	1991-05-28	Machida et al.					8	5039522	1991-08-13	Neurath					9	5143726	1992-09-01	Thornton et al.				745	10	5196194	1993-03-23	Rutter et al.					11	5780036	1998-07-14	Chisari					12	5788969	1998-08-04	Chisari					13	5840303	1998-11-24	Chisari et al.					14	5932224	1999-08-03	Chisari					15	6037135	2000-03-14	Kubo et al.			
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16	6235288	2001-05-22	Chisari
17	5200320	1993-04-06	Sette et al.
18	5503829	1996-04-02	Ladant et al.
19	5662907	1997-09-02	Kubo et al.
20	6034214	2000-03-07	Boon et al.
21	6037135	2000-03-14	Kubo et al.

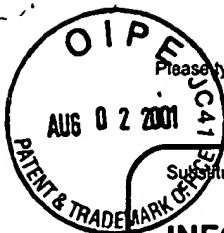
US Published Applications

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1	1	20020168374	2002-11-14	Kubo et al.	A1		
2	2	20020177694	2002-11-28	Sette et al.	A1		
3	3	20020098197	2002-07-25	Sette et al.	A1		
4	4	20030021809	2003-01-30	Chisari	A1		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 5

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Application Number	09/350,401
Filing Date	July 8, 1999
First Named Inventor	
Group Art Unit	1644
Examiner Name	R. Schwadron
Attorney Docket Number	018623-013910US

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U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. 1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code 2 (If known)			
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	AB	4,599,230		Milich and Chisari	8 July 1986	
	AC	4,599,231		Milich and Chisari	8 July 1986	
	AD	4,818,527		Thornton <i>et al.</i>	4 Apr. 1989	
	AE	4,882,145		Thornton <i>et al.</i>	21 Nov. 198	
	AF	5,017,558		Vyas	21 May 1991	
	AG	5,019,386		Machida and Nakamura	28 May 1991	
	AH	5,039,522		Neurath	13 Aug. 1991	
	AI	5,143,726		Thornton <i>et al.</i>	1 Sept. 1992	
	AJ	6,037,135		Kubo <i>et al.</i>	14 Mar. 2000	

FOREIGN PATENT DOCUMENTS								
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	09/350,401	
			Filing Date	July 8, 1999	
			First Named Inventor		
			Group Art Unit	1644	
			Examiner Name	R. Schwadron	
Sheet	2	of	5	Attorney Docket Number	018623-013910US

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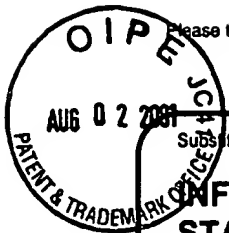
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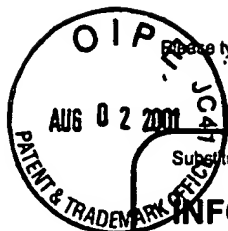
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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	AU	Alexander <i>et al.</i> , "Derivation of HLA-A11/K Transgenic Mice" <u>The Journal of Immunology</u> (1997) 159: 4753-4761	<input type="checkbox"/>
	AV	Alexander, <i>et al.</i> "The Optimization of Helper T Lymphocyte (HTL) Function in Vaccine Development" <u>Immunological Research</u> (1998) 18 (2) 79-92.	<input type="checkbox"/>
	AW	Ando <i>et al.</i> , "Mechanisms of Class I Restricted Immunopathology. A Transgenic Mouse Model of Fulminant Hepatitis" <u>J. Exp. Med.</u> (1993) 178: 1541-1554	<input type="checkbox"/>
	AX	Barnaba <i>et al.</i> , "Selective Killing of Hepatitis B Envelope Antigen-specific B cells by Class I-restricted, Exogenous Antigen-specific T Lymphocytes" <u>Nature</u> (1990) 345 258-260	<input type="checkbox"/>
	AY	Bertoletti <i>et al.</i> , "Definition of a Minimal Optimal Cytotoxic T-Cell Epitope Within the Hepatitis B Virus Nucleocapsid Protein" <u>Journal of Virology</u> (1993) 67(4): 2376-2380	<input type="checkbox"/>
	AZ	Bertoletti <i>et al.</i> , "Natural Variants of Cytotoxic Epitopes are T-cell Receptor Antagonists for Antiviral Cytotoxic T Cells" <u>Nature</u> (1994) 369: 407-410	<input type="checkbox"/>
	AAA	Bertoletti <i>et al.</i> , "HLA Class I-restricted Human Cytotoxic T Cells Recognize Endogenously Synthesized Hepatitis B Virus Nucleocapsid Antigen" <u>Proc. Natl. Acad. Sci. USA</u> (1991) 88: 10445-10449	<input type="checkbox"/>
	AAB	Bertoni <i>et al.</i> , "Human Histocompatibility Leukocyte Antigen-binding Supermotifs Predict Broadly Cross-reactive Cytotoxic T Lymphocyte Responses in Patients with Acute Hepatitis" <u>J. Clin. Invest.</u> (1997) 100(3): 503-513	<input type="checkbox"/>
	AAC	Borras-Cuesta <i>et al.</i> , "Engineering of Immunogenic Peptides by Co-linear Synthesis of Determinants Recognized by B and T Cells" <u>Eur. J. Immunol.</u> (1987) 17: 1213-1215	<input type="checkbox"/>
	AAD	Bhatnagar <i>et al.</i> , "Immune Response to Synthetic Peptide Analogues of Hepatitis B Surface Antigen Specific for the a Determinant" <u>Proc. Natl. Acad. Sci. USA</u> (1982) 79: 4400-4404	<input type="checkbox"/>
	AAE	Celis <i>et al.</i> , "Recognition of Hepatitis B Surface Antigen by Human T Lymphocytes" <u>The Journal of Immunology</u> (1988) 140: 1808-1815	<input type="checkbox"/>
	AAF	Chisari, "Hepatitis B Virus Immunopathogenesis" <u>Annu. Rev. Immunol.</u> (1995) 13: 29-60	<input type="checkbox"/>
	AAG	del Guercio <i>et al.</i> , Binding of a Peptide Antigen to Multiple HLA Alleles Allows Definition of an A2-Like Supertype" <u>The Journal of Immunology</u> (1995) 154: 685-693	<input type="checkbox"/>

Examiner Signature	Date Considered 7/9/2001
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 5

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Group Art Unit	1644
Examiner Name	R. Schwadron
Attorney Docket Number	018623-013910US

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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	AAH	Deres <i>et al.</i> , "In Vivo Priming of Virus-specific Cytotoxic T Lymphocytes with Synthetic Lipopeptide Vaccine" <i>Nature</i> (1989) 342: 561-564	<input type="checkbox"/>
	AAI	Fayolle <i>et al.</i> , "In Vivo Induction of Cytotoxic T Cell Response by a Free Synthetic Peptide Requires CD4 ⁺ T Cell Help" <i>The Journal of Immunology</i> (1991) 147: 4069-4073	<input type="checkbox"/>
	AAJ	Ferrari <i>et al.</i> , "Identification of Immunodominant T Cell Epitopes of the Hepatitis B Virus Nucleocapsid Antigen" <i>J. Clin. Invest.</i> (1991) 88: 214-222	<input type="checkbox"/>
	AAK	Fujii, <i>et al.</i> , "Synthesis of Peptide Fragments of Hepatitis B Virus Surface Antigen (HBsAg) and Their Immunogenicity" <i>Peptide Chemistry</i> (1983), E.Munekata (Ed.) 215-220	<input type="checkbox"/>
	AAL	Hayashi <i>et al.</i> , "Studies on Peptides. CLXVI. Solid-Phase Syntheses and Immunological Properties of Fragment Peptides Related to Human Hepatitis B Virus Surface Antigen (HBsAg) and Its Pre-S2 Gene" <i>Chem. Pharm. Bull.</i> (1988) 36(12): 4993-4999	<input type="checkbox"/>
	AAM	Hopp, "Immunogenicity of a Synthetic HBsAg Peptide Enhancement by Conjugation to a Fatty Acid Carrier" <i>Molecular Immunology</i> (1984) 21(1): 13-16	<input type="checkbox"/>
	AAN	Ishioka <i>et al.</i> , "Class I MHC-restricted, Peptide-specific Cytotoxic T Lymphocytes Generated by Peptide Priming In Vivo" <i>Vaccines 90</i> (1990) Cold Springs Harbor Laboratory Press pp. 7-11	<input type="checkbox"/>
	AAO	Kondo <i>et al.</i> , "Prominent Roles of Secondary Anchor Residues in Peptide Binding to HLA-A24 Human Class I Molecules" <i>The Journal of Immunology</i> (1995) 155: 4307-4312	<input type="checkbox"/>
	AAP	Lerner <i>et al.</i> , "Chemically Synthesized Peptides Predicted From the Nucleotide Sequence of the Hepatitis B Virus Genome Elicit Antibodies Reactive with the Native Envelope Protein of Dane Particles" <i>Proc. Natl. Acad. Sci. USA</i> (1981) 78(6) 3403-34-7	<input type="checkbox"/>
	AAQ	Milton, "Probing T Cell Antigen Recognition: Use of Synthetic Peptides" <i>Peptide Research</i> (1990) 3(2): 85-96	<input type="checkbox"/>
	AAR	Milich <i>et al.</i> , "Immune Response to Hepatitis B-Virus Core Antigen (HBcAg): Localization of T Cell Recognition Sites Within HBcAg/HBeAg" <i>The Journal of Immunology</i> (1987) 139(4): 1223-1231	<input type="checkbox"/>
	AAS	Nayersina <i>et al.</i> , "HLA A2 Restricted Cytotoxic T Lymphocyte Responses to Multiple Hepatitis B Surface Antigen Epitopes During Hepatitis B Virus Infection" <i>The Journal of Immunology</i> (1993) 150(10): 4659-4671	<input type="checkbox"/>

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Sheet 5 of 5

Complete if Known

Application Number 09/350,401
Filing Date July 8, 1999
First Named Inventor
Group Art Unit 1644
Examiner Name R. Schwadron
Attorney Docket Number 018623-013910US

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	AAT	Penna <i>et al.</i> , "Hepatitis B Virus (HBV)-Specific Cytotoxic T-Cell (CTL) Response in Humans. Characterization of HLA Class II-Restricted CTLs That Recognize Endogenously Synthesized HBV Envelope Antigens" <i>Journal of Virology</i> (1992) 66(2): 1193-1198	<input type="checkbox"/>
	AAU	Penna <i>et al.</i> , "Cytotoxic T Lymphocytes Recognized an HLA-A2-restricted Epitope Within the Hepatitis B Virus Nucleocapsid Antigen" <i>J. Exp. Med.</i> (1991) 174: 1565-2570	<input type="checkbox"/>
	AAV	Rehermann <i>et al.</i> , "The Cytotoxic T Lymphocyte Response to Multiple Hepatitis B Virus Polymerase Epitopes During and After Acute Viral Hepatitis" <i>The Journal of Experimental Medicine</i> (1995) 181: 1047-1058	<input type="checkbox"/>
	AAW	Ruppert <i>et al.</i> , "Prominent Role of Secondary Anchor Residues in Peptide Binding to HLA-A2.1 Molecules" <i>Cell</i> (1993) 74: 929-937	<input type="checkbox"/>
	AAX	Sallberg <i>et al.</i> , "Human and Murine B-cells Recognize the HBcAg/BETA (or Hbc2) Epitope as a Linear Determinant" <i>Molecular Immunology</i> (1991) 28(7): 719-726	<input type="checkbox"/>
	AAZ	Sette <i>et al.</i> , "The Relationship Between Class I Binding Affinity and Immunogenicity of Potential Cytotoxic T Cell Epitopes" <i>The Journal of Immunology</i> (1994) 153:5586-5592	<input type="checkbox"/>
	AAAA	Tees <i>et al.</i> , "Enhancement of Tumor Outgrowth Through CTL Tolerization After Peptide Vaccination is Avoided by Peptide Presentation on Dendritic Cells" <i>Journal of Immunology</i> (1998) 160:4449-4456	<input type="checkbox"/>
	AAAB	Wakita <i>et al.</i> , "Gamma-Interferon Production in Response to Hepatitis B Core Protein and Its Synthetic Peptides in Patients with Chronic Hepatitis B Virus Infection" <i>Digestion</i> (1990) 47: 149-155	<input type="checkbox"/>

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